

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	26	(US-20070015374-\$ or US-20050178649-\$ or US-20050129591-\$ or US-20050163673-\$ or US-20050079124-\$ or US-20040092118-\$ or US-20020187082-\$ or US-20050118094-\$ or US-20020172629-\$ or US-20020006368-\$ or US-20010002987-\$ or US-20040129892-\$ or US-20040127764-\$).did. or (US-7001571-\$ or US-6887291-\$ or US-6680031-\$ or US-6653356-\$ or US-6812470-\$ or US-6575308-\$ or US-6685886-\$ or US-4979830-\$ or US-4424199-\$ or US-6579507-\$ or US-5933702-\$ or US-5213768-\$ or US-3888423-\$).did.	US-PGPUB; USPAT	ADJ	ON	2007/03/09 09:50
L2	375354	UV or ultraviolet	US-PGPUB; USPAT	ADJ	ON	2007/03/09 09:51
L3	7316	photocatalytic or photocatalysis or photooxidation or photo-oxidation or photocatalyst	US-PGPUB; USPAT	ADJ	ON	2007/03/09 09:52
L4	1847	2 near3 bulb	US-PGPUB; USPAT	ADJ	ON	2007/03/09 09:52
L5	43	4 with outside	US-PGPUB; USPAT	ADJ	ON	2007/03/09 10:03
L6	2	5 and 3	US-PGPUB; USPAT	ADJ	ON	2007/03/09 09:53
L7	1847	4 with 2	US-PGPUB; USPAT	ADJ	ON	2007/03/09 09:53
L8	30	7 and quartz and 3	US-PGPUB; USPAT	ADJ	ON	2007/03/09 09:55
L9	63	4 with (outside or external)	US-PGPUB; USPAT	ADJ	ON	2007/03/09 10:03
L10	20	9 not 5	US-PGPUB; USPAT	ADJ	ON	2007/03/09 10:04
L11	0	10 and 3	US-PGPUB; USPAT	ADJ	ON	2007/03/09 10:05
L12	584	external lamp	US-PGPUB; USPAT	ADJ	ON	2007/03/09 10:05
L13	1	12 and 3	US-PGPUB; USPAT	ADJ	ON	2007/03/09 10:05

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L14	4342	external with 2	US-PGPUB; USPAT	ADJ	ON	2007/03/09 10:05
L15	167	14 and 3	US-PGPUB; USPAT	ADJ	ON	2007/03/09 10:06
L16	46	15 and quartz	US-PGPUB; USPAT	ADJ	ON	2007/03/09 10:13
L17	8359	external near3 light near3 source	US-PGPUB; USPAT	ADJ	ON	2007/03/09 10:13
L18	87	17 and 3	US-PGPUB; USPAT	ADJ	ON	2007/03/09 10:13
L19	25	18 and reactor	US-PGPUB; USPAT	ADJ	ON	2007/03/09 10:21
L20	636532	semiconductor or semi-conductor	US-PGPUB; USPAT	ADJ	ON	2007/03/09 10:33
L21	937943	copper or ruthenium or osmium or platinum or silver or nickel or rhodium or palladium or gold	US-PGPUB; USPAT	ADJ	ON	2007/03/09 10:43
L23	27	(US-20070015374-\$ or US-20050178649-\$ or US-20050129591-\$ or US-20050163673-\$ or US-20050079124-\$ or US-20040092118-\$ or US-20020187082-\$ or US-20050118094-\$ or US-20020172629-\$ or US-20020006368-\$ or US-20010002987-\$ or US-20040129892-\$ or US-20040127764-\$).did. or (US-7001571-\$ or US-6887291-\$ or US-6680031-\$ or US-6653356-\$ or US-6812470-\$ or US-6575308-\$ or US-6685886-\$ or US-4979830-\$ or US-4424199-\$ or US-6579507-\$ or US-5933702-\$ or US-5213768-\$ or US-3888423-\$ or US-6500969-\$). did.	US-PGPUB; USPAT	ADJ	ON	2007/03/09 10:49
L24	322785	21 near3 21	US-PGPUB; USPAT	ADJ	ON	2007/03/09 10:50
L25	11376	21 near3 20	US-PGPUB; USPAT	ADJ	ON	2007/03/09 10:52
L26	103	25 and 3	US-PGPUB; USPAT	ADJ	ON	2007/03/09 10:52
L27	18	26 and nanoparticles	US-PGPUB; USPAT	ADJ	ON	2007/03/09 10:54
L28	232	25 with catalyst	US-PGPUB; USPAT	ADJ	ON	2007/03/09 10:54

EAST Search History

L29	8	28 not substrate	US-PGPUB; USPAT	ADJ	ON	2007/03/09 11:13
L30	1	"4585673".pn.	US-PGPUB; USPAT	ADJ	ON	2007/03/09 11:55
L31	1	"3375058".pn.	US-PGPUB; USPAT	ADJ	ON	2007/03/09 11:56
L32	172	"24954"	US-PGPUB; USPAT	ADJ	ON	2007/03/09 11:57
L33	1261	Church.in.	US-PGPUB; USPAT	ADJ	ON	2007/03/09 11:57
S1	34	((("3375058") or ("3606737") or ("3951627") or ("4343631") or ("4395269") or ("4419113") or ("4468240") or ("4830841") or ("4865627") or ("5013341") or ("5045288") or ("5114692") or ("5167676") or ("5254144") or ("5453108") or ("5458665") or ("5462674") or ("5514278") or ("5554300") or ("5752999") or ("5876537") or ("5944859") or ("6056796") or ("6123746") or ("6136203") or ("6156114") or ("6273925") or ("6290743") or ("6312490") or ("6361575") or ("6383301") or ("6398837") or ("6451081") or ("6592641"))).PN.	US-PGPUB; USPAT	OR	OFF	2007/03/01 07:30
S2	1129189	vessel or chamber	US-PGPUB; USPAT	ADJ	ON	2007/03/01 07:30
S3	550466	inlet	US-PGPUB; USPAT	ADJ	ON	2007/03/01 07:31
S4	2120714	downward or bottom	US-PGPUB; USPAT	ADJ	ON	2007/03/01 07:31
S5	40368	S3 near5 S4	US-PGPUB; USPAT	ADJ	ON	2007/03/01 07:31
S6	2281	"422".clas. and S5	US-PGPUB; USPAT	ADJ	ON	2007/03/01 07:32
S8	446	S6 and S7	US-PGPUB; USPAT	ADJ	ON	2007/03/01 07:33
S11	162	S9 near5 S10	US-PGPUB; USPAT	ADJ	ON	2007/03/01 07:34
S12	31	S11 and S7	US-PGPUB; USPAT	ADJ	ON	2007/03/01 07:38
S14	9101	S13 and S7	US-PGPUB; USPAT	ADJ	ON	2007/03/01 07:48
S17	31692	S13 and S16	US-PGPUB; USPAT	ADJ	ON	2007/03/01 07:58

EAST Search History

S59	1366831	filter or permeable membrane or screen	US-PGPUB; USPAT	ADJ	ON	2007/03/01 15:00
S60	1819	contaminated gas	US-PGPUB; USPAT	ADJ	ON	2007/03/01 15:58
S61	1185024	clear or unclog or clean or dislodge	US-PGPUB; USPAT	ADJ	ON	2007/03/02 10:01
S62	164467	contaminated or dirty or polluted	US-PGPUB; USPAT	ADJ	ON	2007/03/01 15:59
S63	1130825	gas	US-PGPUB; USPAT	ADJ	ON	2007/03/01 15:59
S64	8460	S62 near5 S63	US-PGPUB; USPAT	ADJ	ON	2007/03/01 15:59
S65	6892	S62 near3 S63	US-PGPUB; USPAT	ADJ	ON	2007/03/01 16:00
S66	30046	S59 near6 S61	US-PGPUB; USPAT	ADJ	ON	2007/03/01 16:00
S67	612	S65 and S66	US-PGPUB; USPAT	ADJ	ON	2007/03/01 16:01
S68	727191	burst or pulse or purge	US-PGPUB; USPAT	ADJ	ON	2007/03/01 16:01
S69	723	S68 with S66	US-PGPUB; USPAT	ADJ	ON	2007/03/01 16:02
S70	85	S65 and S69	US-PGPUB; USPAT	ADJ	ON	2007/03/01 16:07
S71	672387	burst or pulse	US-PGPUB; USPAT	ADJ	ON	2007/03/01 16:07
S72	563	S71 with S66	US-PGPUB; USPAT	ADJ	ON	2007/03/01 16:07
S73	72	S65 and S72	US-PGPUB; USPAT	ADJ	ON	2007/03/02 08:12
S77	2	gas permeable separation device	US-PGPUB; USPAT	ADJ	ON	2007/03/02 09:45
S78	2825473	alternat\$	US-PGPUB; USPAT	ADJ	ON	2007/03/02 09:45
S79	595033	pulse	US-PGPUB; USPAT	ADJ	ON	2007/03/02 09:45
S80	37933	S78 near6 S79	US-PGPUB; USPAT	ADJ	ON	2007/03/02 09:46
S81	73084	"422".clas.	US-PGPUB; USPAT	ADJ	ON	2007/03/02 09:46
S82	263	S80 and S81	US-PGPUB; USPAT	ADJ	ON	2007/03/02 09:51
S83	0	422/139.clas.	US-PGPUB; USPAT	ADJ	ON	2007/03/02 09:46

EAST Search History

S84	681	422/139.ccls.	US-PGPUB; USPAT	ADJ	ON	2007/03/02 09:46
S85	5	S80 and S84	US-PGPUB; USPAT	ADJ	ON	2007/03/02 09:46
S86	323710	alternating or alternated	US-PGPUB; USPAT	ADJ	ON	2007/03/02 09:51
S87	10734	S86 near6 S79	US-PGPUB; USPAT	ADJ	ON	2007/03/02 09:52
S88	116	S87 and S81	US-PGPUB; USPAT	ADJ	ON	2007/03/02 09:53
S89	33	S88 not voltage	US-PGPUB; USPAT	ADJ	ON	2007/03/02 09:57
S90	1364955	screen or filter or strainer	US-PGPUB; USPAT	ADJ	ON	2007/03/02 09:58
S91	558	S87 same S90	US-PGPUB; USPAT	ADJ	ON	2007/03/02 09:58
S92	135	S91 not voltage	US-PGPUB; USPAT	ADJ	ON	2007/03/02 09:58
S93	73	S92 not current	US-PGPUB; USPAT	ADJ	ON	2007/03/02 10:00
S94	1185024	clear or unclog or clean or dislodge	US-PGPUB; USPAT	ADJ	ON	2007/03/02 10:14
S96	59576	revers\$ near3 flow	US-PGPUB; USPAT	ADJ	ON	2007/03/02 10:14
S97	27661	S90 near5 S94	US-PGPUB; USPAT	ADJ	ON	2007/03/02 10:15
S98	458	S96 with S97	US-PGPUB; USPAT	ADJ	ON	2007/03/02 10:24
S99	27122	S97 not osmosis	US-PGPUB; USPAT	ADJ	ON	2007/03/02 10:15
S10 0	439	S98 not osmosis	US-PGPUB; USPAT	ADJ	ON	2007/03/02 10:16
S10 1	2	S98 same catalyst	US-PGPUB; USPAT	ADJ	ON	2007/03/02 10:17
S10 2	672387	pulse or burst	US-PGPUB; USPAT	ADJ	ON	2007/03/02 10:24
S10 3	49	S98 with S102	US-PGPUB; USPAT	ADJ	ON	2007/03/02 10:29
S10 4	359725	membrane	US-PGPUB; USPAT	ADJ	ON	2007/03/02 10:30
S10 5	4272	S94 near5 S104	US-PGPUB; USPAT	ADJ	ON	2007/03/02 10:30
S10 6	26	S105 with S102	US-PGPUB; USPAT	ADJ	ON	2007/03/02 10:40

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S10 7	0	S98 with online	US-PGPUB; USPAT	ADJ	ON	2007/03/02 10:40
S10 8	9480	S86 near4 S102	US-PGPUB; USPAT	ADJ	ON	2007/03/02 10:41
S10 9	0	S108 with online	US-PGPUB; USPAT	ADJ	ON	2007/03/02 10:41
S11 0	0	S108 with in-situ	US-PGPUB; USPAT	ADJ	ON	2007/03/02 10:42
S11 1	0	S108 same in-situ	US-PGPUB; USPAT	ADJ	ON	2007/03/02 10:42
S11 2	11	S108 near5 S94	US-PGPUB; USPAT	ADJ	ON	2007/03/05 07:34
S11 3	1	"6969506".pn.	US-PGPUB; USPAT	ADJ	ON	2007/03/05 08:00
S11 4	1	"6777118".pn.	US-PGPUB; USPAT	ADJ	ON	2007/03/05 08:02
S11 5	7374	backpressure	US-PGPUB; USPAT	ADJ	ON	2007/03/05 08:23
S11 6	28400	backpressure or reverse flow	US-PGPUB; USPAT	ADJ	ON	2007/03/05 08:23
S11 7	1185024	clear or unclog or clean or dislodge	US-PGPUB; USPAT	ADJ	ON	2007/03/05 08:24
S12 7	34	((("3375058") or ("3606737") or ("3951627") or ("4343631") or ("4395269") or ("4419113") or ("4468240") or ("4830841") or ("4865627") or ("5013341") or ("5045288") or ("5114692") or ("5167676") or ("5254144") or ("5453108") or ("5458665") or ("5462674") or ("5514278") or ("5554300") or ("5752999") or ("5876537") or ("5944859") or ("6056796") or ("6123746") or ("6136203") or ("6156114") or ("6273925") or ("6290743") or ("6312490") or ("6361575") or ("6383301") or ("6398837") or ("6451081") or ("6592641"))).PN.	US-PGPUB; USPAT	OR	OFF	2007/03/05 08:53
S13 0	2722	photocatalytic or photocatalysis	US-PGPUB; USPAT	ADJ	ON	2007/03/05 08:55
S13 3	131835	contaminated or polluted	US-PGPUB; USPAT	ADJ	ON	2007/03/05 08:56
S13 8	322159	moisture	US-PGPUB; USPAT	ADJ	ON	2007/03/05 09:19
S14 0	130150	"TiO.sub.2" or titanium dioxide	US-PGPUB; USPAT	ADJ	ON	2007/03/05 09:22

EAST Search History

S14 2	220198	humid\$	US-PGPUB; USPAT	ADJ	ON	2007/03/05 09:23
S14 3	52	S130 with S142	US-PGPUB; USPAT	ADJ	ON	2007/03/05 09:25
S14 4	73084	"422".clas.	US-PGPUB; USPAT	ADJ	ON	2007/03/05 09:25
S14 7	64611	fluidized or fluidize or fluidizing	US-PGPUB; USPAT	ADJ	ON	2007/03/05 09:42
S14 9	869366	alternating or alternated or switching	US-PGPUB; USPAT	ADJ	ON	2007/03/05 10:07
S15 0	550466	inlet	US-PGPUB; USPAT	ADJ	ON	2007/03/05 09:44
S15 1	672387	pulse or burst	US-PGPUB; USPAT	ADJ	ON	2007/03/05 09:44
S15 7	237990	synchronize or synchronized	US-PGPUB; USPAT	ADJ	ON	2007/03/05 10:13
S16 3	67296	S149 with S151	US-PGPUB; USPAT	ADJ	ON	2007/03/05 10:15
S16 4	14805	S163 not voltage	US-PGPUB; USPAT	ADJ	ON	2007/03/05 10:15
S16 5	202	S164 same inlet	US-PGPUB; USPAT	ADJ	ON	2007/03/05 10:16
S16 6	83	S165 same flow	US-PGPUB; USPAT	ADJ	ON	2007/03/05 10:20
S16 7	3	S166 and S144	US-PGPUB; USPAT	ADJ	ON	2007/03/05 10:23
S16 8	2	((("6887291") or ("5933702")).PN.	US-PGPUB; USPAT	OR	OFF	2007/03/05 10:24
S16 9	644214	semi-conductor or semiconductive or semi-conductive or semiconductor	US-PGPUB; USPAT	ADJ	ON	2007/03/05 10:24
S17 0	1	S168 and S169	US-PGPUB; USPAT	ADJ	ON	2007/03/05 10:25
S17 1	23149	nanoparticles or nano-particles	US-PGPUB; USPAT	ADJ	ON	2007/03/05 10:25
S17 2	3649	S171 and S140	US-PGPUB; USPAT	ADJ	ON	2007/03/05 10:25
S17 3	1522	S172 and S169	US-PGPUB; USPAT	ADJ	ON	2007/03/05 10:26
S17 4	158	S173 and S130	US-PGPUB; USPAT	ADJ	ON	2007/03/05 10:26
S17 5	16	S174 and "422".clas.	US-PGPUB; USPAT	ADJ	ON	2007/03/05 10:39

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S17 6	967	S171 with S140	US-PGPUB; USPAT	ADJ	ON	2007/03/05 10:43
S18 1	846	422/168.ccls.	US-PGPUB; USPAT	ADJ	ON	2007/03/05 10:43
S18 4	23	S176 and S144	US-PGPUB; USPAT	ADJ	ON	2007/03/05 10:46
S18 5	296727	purification or purify or decontaminate or decontamination	US-PGPUB; USPAT	ADJ	ON	2007/03/05 10:47
S18 6	540	S185 same S171	US-PGPUB; USPAT	ADJ	ON	2007/03/05 10:47
S18 7	19	S186 same S140	US-PGPUB; USPAT	ADJ	ON	2007/03/05 10:49
S18 8	1173	S171 with catalyst	US-PGPUB; USPAT	ADJ	ON	2007/03/05 11:48
S19 3	508	422/147.ccls.	US-PGPUB; USPAT	ADJ	ON	2007/03/05 12:28
S20 4	327	S193 not FCC	US-PGPUB; USPAT	ADJ	ON	2007/03/05 11:55
S20 5	1	S204 and S171	US-PGPUB; USPAT	ADJ	ON	2007/03/05 11:54
S20 7	3241	S169 with catalyst	US-PGPUB; USPAT	ADJ	ON	2007/03/05 12:29
S20 8	29	S207 with S171	US-PGPUB; USPAT	ADJ	ON	2007/03/05 12:29
S20 9	681	422/139.ccls.	US-PGPUB; USPAT	ADJ	ON	2007/03/05 12:30
S21 1	644214	semi-conductor or semiconductive or semi-conductive or semiconductor	US-PGPUB; USPAT	ADJ	ON	2007/03/05 12:34
S21 2	23149	nanoparticles or nano-particles	US-PGPUB; USPAT	ADJ	ON	2007/03/05 13:01
S21 3	3241	S211 with catalyst	US-PGPUB; USPAT	ADJ	ON	2007/03/05 12:37
S21 6	2722	photocatalytic or photocatalysis	US-PGPUB; USPAT	ADJ	ON	2007/03/05 13:26
S21 8	170	S216 same S212	US-PGPUB; USPAT	ADJ	ON	2007/03/05 12:38
S22 0	411	422/143.ccls.	US-PGPUB; USPAT	ADJ	ON	2007/03/05 12:38
S22 2	73084	"422".clas.	US-PGPUB; USPAT	ADJ	ON	2007/03/05 12:39
S22 3	13	S222 and S218	US-PGPUB; USPAT	ADJ	ON	2007/03/05 12:39

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S22 4	10	S223 not voltage	US-PGPUB; USPAT	ADJ	ON	2007/03/05 12:39
S22 5	23659	nanoparticles or nano-particles or nano particles	US-PGPUB; USPAT	ADJ	ON	2007/03/05 13:01
S22 6	84	nano catalyst	US-PGPUB; USPAT	ADJ	ON	2007/03/05 13:02
S22 8	9	S226 and "422".clas.	US-PGPUB; USPAT	ADJ	ON	2007/03/05 13:02
S22 9	383371	ultraviolet or UV or ultra-violet	US-PGPUB; USPAT	ADJ	ON	2007/03/05 13:03
S23 0	64611	fluidize or fluidized or fluidizing	US-PGPUB; USPAT	ADJ	ON	2007/03/05 13:06
S23 2	579314	bed or catalyst	US-PGPUB; USPAT	ADJ	ON	2007/03/05 13:06
S23 3	47612	S232 near3 S230	US-PGPUB; USPAT	ADJ	ON	2007/03/05 13:07
S23 4	44884	S233 not FCC	US-PGPUB; USPAT	ADJ	ON	2007/03/05 13:07
S23 5	44684	S234 not nanotube	US-PGPUB; USPAT	ADJ	ON	2007/03/05 13:07
S23 6	171	S225 same S216	US-PGPUB; USPAT	ADJ	ON	2007/03/05 13:08
S23 7	2	S236 and S235	US-PGPUB; USPAT	ADJ	ON	2007/03/05 13:08
S23 8	346	S216 and S225	US-PGPUB; USPAT	ADJ	ON	2007/03/05 13:08
S24 0	200	S238 not voltage	US-PGPUB; USPAT	ADJ	ON	2007/03/05 13:12
S24 1	90	S216 near5 S225	US-PGPUB; USPAT	ADJ	ON	2007/03/05 13:14
S24 2	4	S241 and "422".clas.	US-PGPUB; USPAT	ADJ	ON	2007/03/05 13:12
S24 3	11	S241 same catalyst	US-PGPUB; USPAT	ADJ	ON	2007/03/05 13:14
S24 4	10	S243 not S242	US-PGPUB; USPAT	ADJ	ON	2007/03/05 13:14
S24 5	4997	photocatalytic or photocatalysis or photocatalyst	US-PGPUB; USPAT	ADJ	ON	2007/03/06 14:35
S24 6	118	S245 near5 S225	US-PGPUB; USPAT	ADJ	ON	2007/03/05 13:41
S24 7	8	S246 and S222	US-PGPUB; USPAT	ADJ	ON	2007/03/05 13:27
S24 8	4	S247 not S242	US-PGPUB; USPAT	ADJ	ON	2007/03/05 13:28

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S24 9	18	S246 same catalyst	US-PGPUB; USPAT	ADJ	ON	2007/03/05 13:28
S25 0	8	S249 not S244	US-PGPUB; USPAT	ADJ	ON	2007/03/05 13:28
S25 1	8	("4581429" "4775636" "5134211" "6153705" "6515088" "6534605" "6692914" "6716948").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/05 13:30
S25 3	513	S225 and S235	US-PGPUB; USPAT	ADJ	ON	2007/03/05 13:41
S25 4	6	S253 and S245	US-PGPUB; USPAT	ADJ	ON	2007/03/05 13:41
S25 5	7382	photocatalytic or photocatalysis or photocatalyst or photo-oxidation or photooxidation or photo oxidation	US-PGPUB; USPAT	ADJ	ON	2007/03/05 13:56
S25 6	1	"20020005145"	US-PGPUB; USPAT	ADJ	ON	2007/03/05 13:58
S25 8	1	"20050129591"	US-PGPUB; USPAT	ADJ	ON	2007/03/05 13:57
S25 9	0	S258 and S253	US-PGPUB; USPAT	ADJ	ON	2007/03/05 13:58
S26 0	0	S258 and S246	US-PGPUB; USPAT	ADJ	ON	2007/03/05 13:58
S26 1	703999	gold or ruthenium or osmium or platinum or silver or nickel or rhodium or palladium	US-PGPUB; USPAT	ADJ	ON	2007/03/05 16:08
S26 2	1	S261 and S256	US-PGPUB; USPAT	ADJ	ON	2007/03/05 16:08
S26 3	11	(US-20070015374-\$ or US-20050178649-\$ or US-20020005145-\$).did. or (US-6143253-\$ or US-5213768-\$ or US-6887291-\$ or US-6575308-\$ or US-4424199-\$ or US-5868082-\$ or US-6680031-\$ or US-6579507-\$). did.	US-PGPUB; USPAT	ADJ	ON	2007/03/06 09:29
S26 4	2067762	partially or partial or partly	US-PGPUB; USPAT	ADJ	ON	2007/03/06 09:30
S26 5	64637	fluidize or fluidized or fluidizing	US-PGPUB; USPAT	ADJ	ON	2007/03/06 09:31
S26 7	1103	S264 near3 S265	US-PGPUB; USPAT	ADJ	ON	2007/03/06 09:38
S26 8	304	S267 and catalyst	US-PGPUB; USPAT	ADJ	ON	2007/03/06 09:31
S26 9	754	S264 near2 S265	US-PGPUB; USPAT	ADJ	ON	2007/03/06 09:38

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S27 0	207	S269 and catalyst	US-PGPUB; USPAT	ADJ	ON	2007/03/06 10:04
S27 1	298	S264 S265	US-PGPUB; USPAT	ADJ	ON	2007/03/06 10:04
S27 3	27	("3710279" "3739557" "3816978" "3955947" "4082523" "4259095" "4329162" "4673349" "4853010" "4889481" "5227038" "5273729" "5304366" "5316636" "5393327" "5395409" "5470222" "5562746" "5800580" "5837017" "5876684" "5972079" "5985232" "6090173" "6162411" "6387156" "6551383").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/06 12:40
S27 4	727705	burst or pulse or purge	US-PGPUB; USPAT	ADJ	ON	2007/03/06 12:44
S27 6	105366	online or in-situ or insitu	US-PGPUB; USPAT	ADJ	ON	2007/03/06 12:41
S27 7	870023	alternating or alternated or switching	US-PGPUB; USPAT	ADJ	ON	2007/03/06 12:43
S28 5	10	(US-20070015374-\$ or US-20050178649-\$).did. or (US-5213768-\$ or US-6887291-\$ or US-6575308-\$ or US-4424199-\$ or US-5868082-\$ or US-6680031-\$ or US-6579507-\$ or US-6653356-\$). did.	US-PGPUB; USPAT	ADJ	ON	2007/03/06 14:32
S28 6	5003	photocatalytic or photocatalysis or photocatalyst	US-PGPUB; USPAT	ADJ	ON	2007/03/06 14:35
S28 8	374810	UV or ultraviolet	US-PGPUB; USPAT	ADJ	ON	2007/03/06 14:36
S28 9	11431	S288 near6 within	US-PGPUB; USPAT	ADJ	ON	2007/03/06 14:36
S29 0	352	S289 and S286	US-PGPUB; USPAT	ADJ	ON	2007/03/06 14:36
S29 1	28	S290 and S265	US-PGPUB; USPAT	ADJ	ON	2007/03/06 14:39
S29 2	17	"510980"	US-PGPUB; USPAT	ADJ	ON	2007/03/06 14:49
S29 3	493	S288 near6 outside and S288 near6 inside	US-PGPUB; USPAT	ADJ	ON	2007/03/06 14:49
S29 4	34	S293 and S286	US-PGPUB; USPAT	ADJ	ON	2007/03/06 15:00
S29 5	1099	inside reactor and outside reactor	US-PGPUB; USPAT	ADJ	ON	2007/03/06 15:01

EAST Search History

S29 6	6945	inside reactor	US-PGPUB; USPAT	ADJ	ON	2007/03/06 15:01
S29 7	3584	outside reactor	US-PGPUB; USPAT	ADJ	ON	2007/03/06 15:01
S29 8	33	S288 with S296	US-PGPUB; USPAT	ADJ	ON	2007/03/06 15:01
S29 9	32	S288 with S297	US-PGPUB; USPAT	ADJ	ON	2007/03/06 15:02
S30 0	6	S298 and S299	US-PGPUB; USPAT	ADJ	ON	2007/03/06 15:02
S30 1	2	S300 and S286	US-PGPUB; USPAT	ADJ	ON	2007/03/06 15:07
S30 2	120106	UV light or ultraviolet light	US-PGPUB; USPAT	ADJ	ON	2007/03/06 15:08
S30 3	87	(bulb or light) with S296	US-PGPUB; USPAT	ADJ	ON	2007/03/06 15:09
S30 4	80	(bulb or light) with S297	US-PGPUB; USPAT	ADJ	ON	2007/03/06 15:09
S30 5	15	S303 and S304	US-PGPUB; USPAT	ADJ	ON	2007/03/06 15:09
S30 6	1	S305 and S286	US-PGPUB; USPAT	ADJ	ON	2007/03/06 15:13
S30 7	1687117	light or bulb	US-PGPUB; USPAT	ADJ	ON	2007/03/06 15:13
S30 8	148939	S288 near3 S307	US-PGPUB; USPAT	ADJ	ON	2007/03/06 15:14
S30 9	2468	S308 and S286	US-PGPUB; USPAT	ADJ	ON	2007/03/06 15:15
S31 0	4145545	inside and outside or contained or within	US-PGPUB; USPAT	ADJ	ON	2007/03/06 15:16
S31 1	2279	S310 and S309	US-PGPUB; USPAT	ADJ	ON	2007/03/06 15:17
S31 2	746419	inside and outside	US-PGPUB; USPAT	ADJ	ON	2007/03/06 15:17
S31 3	573	S312 and S309	US-PGPUB; USPAT	ADJ	ON	2007/03/06 15:17
S31 4	296926	purification or purify or decontaminate or decontamination	US-PGPUB; USPAT	ADJ	ON	2007/03/06 15:18
S31 6	199	S314 and S313	US-PGPUB; USPAT	ADJ	ON	2007/03/06 15:32
S31 7	5	S303 and S286	US-PGPUB; USPAT	ADJ	ON	2007/03/06 15:35
S31 8	0	bulb near3 inside near3 reactor	US-PGPUB; USPAT	ADJ	ON	2007/03/06 15:35

EAST Search History

S31 9	42	light near3 inside near3 reactor	US-PGPUB; USPAT	ADJ	ON	2007/03/06 15:35
S32 0	3	S319 and S286	US-PGPUB; USPAT	ADJ	ON	2007/03/06 15:44
S32 1	398602	light source or UV bulb or bulb or ultraviolet light	US-PGPUB; USPAT	ADJ	ON	2007/03/06 15:45
S32 2	332891	coaxially or coaxial	US-PGPUB; USPAT	ADJ	ON	2007/03/06 15:45
S32 3	221239	reactor	US-PGPUB; USPAT	ADJ	ON	2007/03/06 15:45
S32 4	10	S321 with S322 with S323	US-PGPUB; USPAT	ADJ	ON	2007/03/06 15:54
S32 5	480	S286 and S314 and S302	US-PGPUB; USPAT	ADJ	ON	2007/03/06 15:54
S32 6	13	(US-20070015374-\$ or US-20050178649-\$ or US-20050079124-\$ or US-20020187082-\$).did. or (US-5213768-\$ or US-6887291-\$ or US-6575308-\$ or US-4424199-\$ or US-5868082-\$ or US-6680031-\$ or US-6579507-\$ or US-6653356-\$ or US-5933702-\$).did.	US-PGPUB; USPAT	ADJ	ON	2007/03/07 07:55
S32 8	64637	fluidize or fluidizing or fluidized	US-PGPUB; USPAT	ADJ	ON	2007/03/07 08:05
S32 9	674932	bed or catalyst or reactor	US-PGPUB; USPAT	ADJ	ON	2007/03/07 08:06
S33 0	48036	S328 near3 S329	US-PGPUB; USPAT	ADJ	ON	2007/03/07 09:08
S33 1	25287	S330 and reactor	US-PGPUB; USPAT	ADJ	ON	2007/03/07 08:07
S33 2	327627	nozzle or sparger	US-PGPUB; USPAT	ADJ	ON	2007/03/07 08:45
S33 5	963651	downward or downwardly	US-PGPUB; USPAT	ADJ	ON	2007/03/07 08:08
S33 6	26346	S335 with S332	US-PGPUB; USPAT	ADJ	ON	2007/03/07 08:08
S33 7	237	S330 same S336	US-PGPUB; USPAT	ADJ	ON	2007/03/07 09:21
S34 0	562	inlet distributor	US-PGPUB; USPAT	ADJ	ON	2007/03/07 08:15
S34 1	11	S340 same S330	US-PGPUB; USPAT	ADJ	ON	2007/03/07 08:17
S34 2	7	S340 near5 S335	US-PGPUB; USPAT	ADJ	ON	2007/03/07 08:19

EAST Search History

S34 5	341254	nozzle or sparger or sprayer	US-PGPUB; USPAT	ADJ	ON	2007/03/07 08:58
S34 6	2704	inlet near3 distributor	US-PGPUB; USPAT	ADJ	ON	2007/03/07 08:58
S34 7	255	S346 and S330	US-PGPUB; USPAT	ADJ	ON	2007/03/07 08:59
S34 8	50	S340 and S330	US-PGPUB; USPAT	ADJ	ON	2007/03/07 08:59
S35 2	133	S347 and catalyst	US-PGPUB; USPAT	ADJ	ON	2007/03/07 09:13
S35 3	94	S352 not S348	US-PGPUB; USPAT	ADJ	ON	2007/03/07 09:18
S35 4	752747	inlet or nozzle or sparger	US-PGPUB; USPAT	ADJ	ON	2007/03/07 09:18
S35 5	55240	S335 with S354	US-PGPUB; USPAT	ADJ	ON	2007/03/07 09:22
S35 6	2333	S355 and S328	US-PGPUB; USPAT	ADJ	ON	2007/03/07 09:22
S35 7	626	S356 and catalyst	US-PGPUB; USPAT	ADJ	ON	2007/03/07 09:23
S35 8	501	S357 and reactor	US-PGPUB; USPAT	ADJ	ON	2007/03/07 10:31
S36 3	398876	oxidative or oxidation	US-PGPUB; USPAT	ADJ	ON	2007/03/07 10:30
S36 4	1057162	reaction	US-PGPUB; USPAT	ADJ	ON	2007/03/07 10:30
S36 5	49291	S363 near2 S364	US-PGPUB; USPAT	ADJ	ON	2007/03/07 10:30
S36 6	7390	photocatalytic or photocatalysis or photocatalyst or photo-oxidation or photooxidation or photo oxidation	US-PGPUB; USPAT	ADJ	ON	2007/03/07 10:30
S36 8	3727	S365 and S330	US-PGPUB; USPAT	ADJ	ON	2007/03/07 10:31
S36 9	23683	nanoparticles or nano-particles or nano particles	US-PGPUB; USPAT	ADJ	ON	2007/03/07 10:31
S37 1	129	S368 and S369	US-PGPUB; USPAT	ADJ	ON	2007/03/07 10:35
S37 2	130217	"TiO.sub.2" or titanium dioxide	US-PGPUB; USPAT	ADJ	ON	2007/03/07 10:35
S37 4	3	S371 and S366	US-PGPUB; USPAT	ADJ	ON	2007/03/07 10:36
S37 5	368	S366 and S369 and S372	US-PGPUB; USPAT	ADJ	ON	2007/03/07 10:37

EAST Search History

S37 6	81	S375 and S365	US-PGPUB; USPAT	ADJ	ON	2007/03/07 10:43
S37 7	636	S330 and S369	US-PGPUB; USPAT	ADJ	ON	2007/03/07 10:43
S37 8	129	S377 and S365	US-PGPUB; USPAT	ADJ	ON	2007/03/07 10:49
S38 0	56	S369 same S363 same S372	US-PGPUB; USPAT	ADJ	ON	2007/03/07 10:51
S38 1	853	S369 near6 catalyst	US-PGPUB; USPAT	ADJ	ON	2007/03/07 10:51
S38 2	81	S363 same S381	US-PGPUB; USPAT	ADJ	ON	2007/03/07 10:51
S38 3	13	S382 and S330	US-PGPUB; USPAT	ADJ	ON	2007/03/07 10:58
S38 4	288	catalyst nanoparticles	US-PGPUB; USPAT	ADJ	ON	2007/03/07 10:58
S38 5	16	S384 with S363	US-PGPUB; USPAT	ADJ	ON	2007/03/07 10:58
S38 6	14	(US-20020187082-\$ or US-20050079124-\$ or US-20050178649-\$ or US-20070015374-\$ or US-20020006368-\$).did. or (US-4424199-\$ or US-5213768-\$ or US-5933702-\$ or US-6575308-\$ or US-6579507-\$ or US-6653356-\$ or US-6680031-\$ or US-6887291-\$ or US-3888423-\$).did.	US-PGPUB; USPAT	ADJ	ON	2007/03/07 11:04
S38 7	131	nanocatalyst or nano-catalyst or nano catalyst	US-PGPUB; USPAT	ADJ	ON	2007/03/07 11:05
S38 8	87	S387 and S363	US-PGPUB; USPAT	ADJ	ON	2007/03/07 11:06
S38 9	19	S388 not nanotube	US-PGPUB; USPAT	ADJ	ON	2007/03/07 12:41
S39 0	79051	UV bulb or ultraviolet light	US-PGPUB; USPAT	ADJ	ON	2007/03/07 15:26
S39 1	850	outside with S390	US-PGPUB; USPAT	ADJ	ON	2007/03/07 12:42
S39 2	34	S391 and S366	US-PGPUB; USPAT	ADJ	ON	2007/03/07 14:38
S39 3	11	quartz and S392	US-PGPUB; USPAT	ADJ	ON	2007/03/07 14:52
S39 4	153163	quartz	US-PGPUB; USPAT	ADJ	ON	2007/03/07 14:53
S39 5	2901	S394 same S390	US-PGPUB; USPAT	ADJ	ON	2007/03/07 14:53

EAST Search History

S39 6	132	S395 and S366	US-PGPUB; USPAT	ADJ	ON	2007/03/07 14:53
S39 7	283081	S390 or UV light or UV	US-PGPUB; USPAT	ADJ	ON	2007/03/07 15:26
S39 8	10163	S397 same quartz	US-PGPUB; USPAT	ADJ	ON	2007/03/07 15:26
S39 9	6	S398 same preferable same outside	US-PGPUB; USPAT	ADJ	ON	2007/03/07 15:32
S40 0	809590	preferable or preferably or prefer	US-PGPUB; USPAT	ADJ	ON	2007/03/07 15:33
S40 1	3285	S400 with S397	US-PGPUB; USPAT	ADJ	ON	2007/03/07 15:33
S40 2	22	S401 with outside	US-PGPUB; USPAT	ADJ	ON	2007/03/07 15:37
S40 3	3131225	outside or separate or separated	US-PGPUB; USPAT	ADJ	ON	2007/03/07 15:38
S40 4	4329037	position or positioned or located or locate or place or placed	US-PGPUB; USPAT	ADJ	ON	2007/03/07 15:39
S40 5	867	S397 with S403 with S404	US-PGPUB; USPAT	ADJ	ON	2007/03/07 15:39
S40 6	36	S405 and S366	US-PGPUB; USPAT	ADJ	ON	2007/03/07 16:04
S40 7	1	"6500969".pn.	US-PGPUB; USPAT	ADJ	ON	2007/03/07 16:06
S40 8	908	S372 with nanoparticles	US-PGPUB; USPAT	ADJ	ON	2007/03/07 16:06
S40 9	404	S408 and oxidation	US-PGPUB; USPAT	ADJ	ON	2007/03/07 16:07
S41 0	77	S409 and reactor and catalyst	US-PGPUB; USPAT	ADJ	ON	2007/03/07 16:15
S41 1	27	S410 and S366	US-PGPUB; USPAT	ADJ	ON	2007/03/07 16:16
S41 2	856	common with S372	US-PGPUB; USPAT	ADJ	ON	2007/03/07 16:17
S41 3	36	S412 and S366 and S363	US-PGPUB; USPAT	ADJ	ON	2007/03/07 16:20
S41 4	1002	S372 with S369	US-PGPUB; USPAT	ADJ	ON	2007/03/07 16:21
S41 5	108	S414 and S366 and S363	US-PGPUB; USPAT	ADJ	ON	2007/03/07 16:45
S41 6	14	"479755"	US-PGPUB; USPAT	ADJ	ON	2007/03/07 16:53
S41 7	6	"469316"	US-PGPUB; USPAT	ADJ	ON	2007/03/07 16:54

EAST Search History

S41 9	297249	purification or purify or decontaminate or decontamination	US-PGPUB; USPAT	ADJ	ON	2007/03/08 07:19
S42 0	645716	semi-conductor or semiconductive or semi-conductive or semiconductor	US-PGPUB; USPAT	ADJ	ON	2007/03/08 07:19
S42 1	64684	fluidize or fluidizing or fluidized	US-PGPUB; USPAT	ADJ	ON	2007/03/08 07:19
S42 2	23779	nanoparticles or nano-particles or nano particles	US-PGPUB; USPAT	ADJ	ON	2007/03/08 07:19
S42 3	6521	photo-oxidation or photo oxidation or photocatalysis or photocatalytic or photo catalyst or photocatalyst	US-PGPUB; USPAT	ADJ	ON	2007/03/08 07:21
S42 4	130378	"TiO.sub.2" or titanium dioxide	US-PGPUB; USPAT	ADJ	ON	2007/03/08 07:22
S42 5	111	nano-catalyst or nanocatalyst	US-PGPUB; USPAT	ADJ	ON	2007/03/08 07:23
S42 7	319819	(titanium or aluminum or vanadium or iron (III) or zinc or cadium or zirconium or molybdenum or tin or antimony or cesium or tungsten or niobium) (dioxide or oxide or pentoxide or sulfide or telluride or disulfide or tetraoxide or trioxide)	US-PGPUB; USPAT	ADJ	ON	2007/03/08 07:28
S44 8	14695	co-catalyst or cocatalyst	US-PGPUB; USPAT	ADJ	ON	2007/03/08 08:26
S45 4	937943	gold or copper or ruthenium or osmium or platinum or silver or nickel or rhodium or palladium	US-PGPUB; USPAT	ADJ	ON	2007/03/08 09:15
S47 1	21	(US-20020187082-\$ or US-20050079124-\$ or US-20050178649-\$ or US-20070015374-\$ or US-20020006368-\$ or US-20040129892-\$ or US-20040127764-\$ or US-20050118094-\$ or US-20050129591-\$ or US-20050163673-\$).did. or (US-4424199-\$ or US-5213768-\$ or US-5933702-\$ or US-6575308-\$ or US-6579507-\$ or US-6653356-\$ or US-6680031-\$ or US-6887291-\$ or US-3888423-\$ or US-6812470-\$ or US-7001571-\$).did.	US-PGPUB; USPAT	ADJ	ON	2007/03/08 12:26
S47 2	2954897	controller or control or synchronize or synchronized	US-PGPUB; USPAT	ADJ	ON	2007/03/08 12:29
S47 3	1093090	pulse or inlet	US-PGPUB; USPAT	ADJ	ON	2007/03/08 12:30

EAST Search History

S47 4	427495	S472 same S473	US-PGPUB; USPAT	ADJ	ON	2007/03/08 12:31
S47 5	294042	S472 with S473	US-PGPUB; USPAT	ADJ	ON	2007/03/08 12:33
S47 6	5537	S475 with (open and close)	US-PGPUB; USPAT	ADJ	ON	2007/03/08 12:36
S47 7	96	S476 and reactor	US-PGPUB; USPAT	ADJ	ON	2007/03/08 12:35
S47 8	4551	S475 with open with close	US-PGPUB; USPAT	ADJ	ON	2007/03/08 12:36
S47 9	64	S478 same (synchronized or synchronize)	US-PGPUB; USPAT	ADJ	ON	2007/03/08 12:38
S48 0	472852	reactor or reagent	US-PGPUB; USPAT	ADJ	ON	2007/03/08 12:37
S48 1	11	S480 and S479	US-PGPUB; USPAT	ADJ	ON	2007/03/08 12:37
S48 2	132	S478 same (synchronized or synchronize or alternate or alternating)	US-PGPUB; USPAT	ADJ	ON	2007/03/08 13:00
S48 3	14	S482 and S480	US-PGPUB; USPAT	ADJ	ON	2007/03/08 12:39
S48 4	3	S483 not S481	US-PGPUB; USPAT	ADJ	ON	2007/03/08 12:39
S48 5	1522589	introduction or introduced or inlet	US-PGPUB; USPAT	ADJ	ON	2007/03/08 13:01
S48 6	864492	alternating or alternate or alternated	US-PGPUB; USPAT	ADJ	ON	2007/03/08 13:01
S48 7	2928202	controller or control	US-PGPUB; USPAT	ADJ	ON	2007/03/08 13:02
S48 8	895	S485 with S486 with S487	US-PGPUB; USPAT	ADJ	ON	2007/03/08 13:03
S49 6	87	S477 not plasma	US-PGPUB; USPAT	ADJ	ON	2007/03/08 13:29
S49 7	178334	pressure near4 control	US-PGPUB; USPAT	ADJ	ON	2007/03/08 13:30
S49 8	3050	open/close near4 valve	US-PGPUB; USPAT	ADJ	ON	2007/03/08 13:30
S49 9	173	S497 with S498	US-PGPUB; USPAT	ADJ	ON	2007/03/08 13:30
S50 0	7	S499 and reactor	US-PGPUB; USPAT	ADJ	ON	2007/03/08 13:30
S50 1	839364	minimize or lessen	US-PGPUB; USPAT	ADJ	ON	2007/03/08 13:32

EAST Search History

S50 2	16483	pressure (spike or pulse)	US-PGPUB; USPAT	ADJ	ON	2007/03/08 13:33
S50 4	295	S501 with S502	US-PGPUB; USPAT	ADJ	ON	2007/03/08 13:34
S50 5	26	S504 and (reactor or reagent)	US-PGPUB; USPAT	ADJ	ON	2007/03/08 13:34
S50 6	2219361	automated or controlled or automate or controller	US-PGPUB; USPAT	ADJ	ON	2007/03/08 13:42
S50 7	7622	inlet/outlet	US-PGPUB; USPAT	ADJ	ON	2007/03/08 13:43
S50 8	571	gas near3 S507	US-PGPUB; USPAT	ADJ	ON	2007/03/08 13:43
S50 9	39	S506 with S508	US-PGPUB; USPAT	ADJ	ON	2007/03/08 13:43
S51 0	10	S509 and reactor	US-PGPUB; USPAT	ADJ	ON	2007/03/08 13:44
S51 1	297896	inlet with outlet	US-PGPUB; USPAT	ADJ	ON	2007/03/08 13:45
S51 2	1201230	gas or reactor	US-PGPUB; USPAT	ADJ	ON	2007/03/08 13:47
S51 3	62602	S511 with S512	US-PGPUB; USPAT	ADJ	ON	2007/03/08 13:47
S51 4	11114	S513 with valve	US-PGPUB; USPAT	ADJ	ON	2007/03/08 13:48
S51 5	872	controller same S514	US-PGPUB; USPAT	ADJ	ON	2007/03/08 13:49
S51 6	54	S515 same (alternating or synchronizing or pressure surge or alternate or synchronize or pressure spike or pressure pulse or pressure control)	US-PGPUB; USPAT	ADJ	ON	2007/03/08 13:50
S51 7	21	S516 and reactor	US-PGPUB; USPAT	ADJ	ON	2007/03/08 13:51
S51 8	437	automated valve or automate valve	US-PGPUB; USPAT	ADJ	ON	2007/03/08 13:52
S51 9	57	S518 and reactor	US-PGPUB; USPAT	ADJ	ON	2007/03/08 13:52
S52 0	221	S518 same (controller or control)	US-PGPUB; USPAT	ADJ	ON	2007/03/08 13:52
S52 1	25	S520 and reactor	US-PGPUB; USPAT	ADJ	ON	2007/03/08 14:10
S52 2	279	alternating near4 introduction	US-PGPUB; USPAT	ADJ	ON	2007/03/08 14:11
S52 3	2219361	automated or controlled or automate or controller	US-PGPUB; USPAT	ADJ	ON	2007/03/08 14:12

EAST Search History

S52 4	279	alternating near4 introduction	US-PGPUB; USPAT	ADJ	ON	2007/03/08 14:12
S52 5	1729312	gas or fluid	US-PGPUB; USPAT	ADJ	ON	2007/03/08 14:13
S52 6	49	S524 with S525	US-PGPUB; USPAT	ADJ	ON	2007/03/08 14:20
S52 7	4266	valve switching	US-PGPUB; USPAT	ADJ	ON	2007/03/08 14:20
S52 8	419	S527 and vessel	US-PGPUB; USPAT	ADJ	ON	2007/03/08 14:21
S52 9	118	S527 same (vessel or reactor)	US-PGPUB; USPAT	ADJ	ON	2007/03/08 14:21
S53 0	45	S529 same gas	US-PGPUB; USPAT	ADJ	ON	2007/03/08 15:02
S53 1	32	automated valve control	US-PGPUB; USPAT	ADJ	ON	2007/03/08 15:08
S53 2	70736	switch with valve	US-PGPUB; USPAT	ADJ	ON	2007/03/08 15:09
S53 3	14	S531 and S532	US-PGPUB; USPAT	ADJ	ON	2007/03/08 15:10
S53 4	104013	(oxidation near3 reaction) or oxidize	US-PGPUB; USPAT	ADJ	ON	2007/03/08 15:11
S53 5	354333	control system	US-PGPUB; USPAT	ADJ	ON	2007/03/08 15:11
S53 6	6872	S534 same reactor	US-PGPUB; USPAT	ADJ	ON	2007/03/08 15:12
S53 7	275475	(inlet or introduction or introduced or fed or feed) with gas	US-PGPUB; USPAT	ADJ	ON	2007/03/08 15:14
S53 8	4885	S537 same S535	US-PGPUB; USPAT	ADJ	ON	2007/03/08 15:15
S53 9	92	S538 and S536	US-PGPUB; USPAT	ADJ	ON	2007/03/08 15:37
S54 0	1	"20010002987"	US-PGPUB; USPAT	ADJ	ON	2007/03/08 15:39
S54 1	18	"213801"	US-PGPUB; USPAT	ADJ	ON	2007/03/08 15:44
S54 2	43840	fluidized bed	US-PGPUB; USPAT	ADJ	ON	2007/03/08 15:44
S54 3	165	agitation and shaker and vibrator	US-PGPUB; USPAT	ADJ	ON	2007/03/08 15:45
S54 4	24	S543 and S542	US-PGPUB; USPAT	ADJ	ON	2007/03/08 15:45
S54 5	14	reactor and S544	US-PGPUB; USPAT	ADJ	ON	2007/03/08 15:49

EAST Search History

S54 6	58	vibrator and agitate and S542	US-PGPUB; USPAT	ADJ	ON	2007/03/08 15:50
S54 7	22	S546 and reactor	US-PGPUB; USPAT	ADJ	ON	2007/03/08 17:07
S54 8	25371	maximum pressure	US-PGPUB; USPAT	ADJ	ON	2007/03/08 17:08
S54 9	2022983	shut off or close or stop	US-PGPUB; USPAT	ADJ	ON	2007/03/08 17:09
S55 0	551098	inlet	US-PGPUB; USPAT	ADJ	ON	2007/03/08 17:10
S55 1	27978	S549 near5 S550	US-PGPUB; USPAT	ADJ	ON	2007/03/08 17:10
S55 2	2731	gas with S551	US-PGPUB; USPAT	ADJ	ON	2007/03/08 17:11
S55 3	9	S548 same S552	US-PGPUB; USPAT	ADJ	ON	2007/03/08 17:12
S55 4	1051670	filter or filtration	US-PGPUB; USPAT	ADJ	ON	2007/03/08 17:12
S55 5	103407	online or in-situ	US-PGPUB; USPAT	ADJ	ON	2007/03/08 17:12
S55 6	221415	reactor	US-PGPUB; USPAT	ADJ	ON	2007/03/08 17:13
S55 7	2970	S555 same S556	US-PGPUB; USPAT	ADJ	ON	2007/03/08 17:13
S55 8	387216	oxidize or oxidation	US-PGPUB; USPAT	ADJ	ON	2007/03/08 17:13
S55 9	1278	S558 and S557	US-PGPUB; USPAT	ADJ	ON	2007/03/08 17:15
S56 0	957	S554 with S555	US-PGPUB; USPAT	ADJ	ON	2007/03/08 17:16
S56 1	44	S560 same S556	US-PGPUB; USPAT	ADJ	ON	2007/03/08 17:16
S56 2	22	S558 and S561	US-PGPUB; USPAT	ADJ	ON	2007/03/08 17:16
S56 3	64684	fluidize or fluidizing or fluidized	US-PGPUB; USPAT	ADJ	ON	2007/03/09 07:34
S56 4	675560	bed or reactor or catalyst	US-PGPUB; USPAT	ADJ	ON	2007/03/09 07:34
S56 5	47490	S563 near2 S564	US-PGPUB; USPAT	ADJ	ON	2007/03/09 07:35
S56 6	74904	inlet near2 gas	US-PGPUB; USPAT	ADJ	ON	2007/03/09 07:35

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S56 7	2081322	automated or automation or controlled or synchronize or synchronized	US-PGPUB; USPAT	ADJ	ON	2007/03/09 07:36
S56 8	199460	S567 with (port or valve)	US-PGPUB; USPAT	ADJ	ON	2007/03/09 07:37
S56 9	1101	S568 with S566	US-PGPUB; USPAT	ADJ	ON	2007/03/09 07:37
S57 0	5	S569 same S565	US-PGPUB; USPAT	ADJ	ON	2007/03/09 07:40
S57 1	324297	alternating or alternated	US-PGPUB; USPAT	ADJ	ON	2007/03/09 07:40
S57 3	208814	open near6 close	US-PGPUB; USPAT	ADJ	ON	2007/03/09 07:40
S57 4	1154501	valve or port or shutoff	US-PGPUB; USPAT	ADJ	ON	2007/03/09 07:42
S57 5	64528	S573 near6 S574	US-PGPUB; USPAT	ADJ	ON	2007/03/09 07:42
S57 6	132	S571 with S575	US-PGPUB; USPAT	ADJ	ON	2007/03/09 07:42
S57 7	16	S576 and (reactor or vessel)	US-PGPUB; USPAT	ADJ	ON	2007/03/09 07:47
S57 8	3240	S571 near5 S574	US-PGPUB; USPAT	ADJ	ON	2007/03/09 07:48
S57 9	15975	gas pulse or pressure pulse	US-PGPUB; USPAT	ADJ	ON	2007/03/09 07:48
S58 0	6	S578 with S579	US-PGPUB; USPAT	ADJ	ON	2007/03/09 07:49
S58 1	12	S578 same S579	US-PGPUB; USPAT	ADJ	ON	2007/03/09 07:48
S58 2	6	S581 not S580	US-PGPUB; USPAT	ADJ	ON	2007/03/09 07:49

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S58 3	26	(US-20050163673-\$ or US-20040092118-\$ or US-20020172629-\$ or US-20010002987-\$ or US-20020187082-\$ or US-20020006368-\$ or US-20050178649-\$ or US-20070015374-\$ or US-20050129591-\$ or US-20050118094-\$ or US-20050079124-\$ or US-20040129892-\$ or US-20040127764-\$).did. or (US-6579507-\$ or US-6685886-\$ or US-4979830-\$ or US-6887291-\$ or US-6575308-\$ or US-5933702-\$ or US-5213768-\$ or US-6653356-\$ or US-6680031-\$ or US-6812470-\$ or US-4424199-\$ or US-3888423-\$ or US-7001571-\$).did.	US-PGPUB; USPAT	ADJ	ON	2007/03/09 07:58
S58 4	420	backpressure with filter	US-PGPUB; USPAT	ADJ	ON	2007/03/09 08:09
S58 5	1372727	cleaning or dislodging or clean or dislodge or clear	US-PGPUB; USPAT	ADJ	ON	2007/03/09 07:59
S58 6	39	S584 with S585	US-PGPUB; USPAT	ADJ	ON	2007/03/09 07:59
S58 7	5	S586 and pulse	US-PGPUB; USPAT	ADJ	ON	2007/03/09 08:00
S58 9	544	backpressure with (filter or membrane)	US-PGPUB; USPAT	ADJ	ON	2007/03/09 08:14
S59 0	41	S589 with S585	US-PGPUB; USPAT	ADJ	ON	2007/03/09 08:10
S59 1	601074	"41" not "39"	US-PGPUB; USPAT	ADJ	ON	2007/03/09 08:10
S59 2	2	S590 not S586	US-PGPUB; USPAT	ADJ	ON	2007/03/09 08:12
S59 3	801	S571 with ((inlet or port) near4 S574)	US-PGPUB; USPAT	ADJ	ON	2007/03/09 08:13
S59 4	23	S593 with filter	US-PGPUB; USPAT	ADJ	ON	2007/03/09 08:14
S59 5	3014	(backpressure or reverse near2 flow) with (filter or membrane)	US-PGPUB; USPAT	ADJ	ON	2007/03/09 08:15
S59 6	731	S595 with S585	US-PGPUB; USPAT	ADJ	ON	2007/03/09 08:20
S59 8	1	"5251384".pn.	US-PGPUB; USPAT	ADJ	ON	2007/03/09 08:21
S59 9	813	S565 and (catalyst near3 (filter or filtration))	US-PGPUB; USPAT	ADJ	ON	2007/03/09 08:22

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S60 0	13	S599 and backpressure	US-PGPUB; USPAT	ADJ	ON	2007/03/09 08:36
S60 1	40	blowback system	US-PGPUB; USPAT	ADJ	ON	2007/03/09 08:36
S60 2	3	S601 and reactor	US-PGPUB; USPAT	ADJ	ON	2007/03/09 08:44
S60 3	945455	introduction or inlet	US-PGPUB; USPAT	ADJ	ON	2007/03/09 08:44